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	INFORMATION DISCLOSURE STATEMENT		APPLICANT Zauderer et al.	
			FILING DATE January 23, 2002	GROUP 1627

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
JE	AA1	4,603,112	07/29/1986	Paoletti, E. et al.	435	235	12/08/1982
	AB1	4,656,134	04/07/1987	Ringold, G.M.	435	91	04/12/1985
	AC1	4,800,159	01/24/1989	Mullis, K.B. et al.	435	172.3	12/17/1986
	AD1	4,816,397	03/28/1989	Boss, M.A. et al.	435	68	03/23/1984
	AE1	4,861,581	08/29/1989	Epstein et al.	424	1.1	12/05/1986
	AF1	4,965,188	10/23/1990	Mullis, K.B. et al.	435	6	06/17/1987
	AG1	5,110,587	05/05/1992	Paoletti, E. et al.	424	89	06/14/1990
	AH1	5,445,953	08/29/1995	Dorner, F. et al.	435	172.3	08/26/1991
	AI1	5,576,195	11/19/1996	Robinson, R.R. et al.	435	69.8	12/09/1994
	AJ1	5,693,493	12/02/1997	Robinson, R.R. et al.	435	69.1	05/25/1995
	AK1	5,770,212	06/23/1998	Falkner, F-G. et al.	424	199.1	02/21/1997

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
JE	AL1	EP 0120694 A2	10/03/1984	Europe			Yes No
	AM1	EP 0120694 B1	10/03/1984	Europe			Yes No
	AN1	GB 2137631 A	10/10/1984	Great Britain			Yes No
	AO1	WO 86/01533 A1	03/13/1986	WIPO			Yes No
	AP1	EP 0200362 A2	12/10/1986	Europe			Yes No

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JE	AR	1	Anderson, W.F., "Human Gene Therapy," <i>Science</i> 256:808-813, American Association for the Advancement of Science (1992)
JE	AS	1	Barbas III, C.F., et al., "Assembly of combinatorial antibody libraries on phage surfaces: The gene III site," <i>Proc. Natl. Acad. Sci. USA</i> 88:7978-7982, National Academy Press (1991)
JE	AT	1	Belyavsky, A., et al., "PCR-based cDNA library construction: general cDNA libraries at the level of a few cells," <i>Nucleic Acids Res.</i> 17:2919-2932, Oxford University Press (1989)

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JE	AA2	5,851,829	12/22/1998	Marasco et al.	435	328	03/30/1995
	AB2	5,910,486	06/08/1999	Curriel et al.	514	44	06/06/1995
	AC2	5,919,650	07/06/1999	Barbacid et al.	435	69.1	04/22/1990
	AD2	5,958,671	09/28/1999	Glimcher et al.	435	4	04/23/1996
	AE2	5,965,371	10/12/1999	Marasco et al.	435	7	05/09/1995
	AF2	6,004,940	12/21/1999	Marasco et al.	514	44	12/06/1994
	AG2	6,028,059	02/22/2000	Curriel et al.	514	44	06/24/1996
	AH2	6,072,036	06/06/2000	Marasco et al.	530	387.3	04/06/1999
	AI2	6,074,640	06/13/2000	Curriel et al.	424	130.1	10/30/1997
	AJ2	6,083,502	07/04/2000	Pastan et al.	424	178.1	01/12/1998
	AK2	6,143,520	11/07/2000	Marasco et al.	435	69.1	04/15/1998

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JE	AL2	EP 0201184 B1	12/17/1986	Europe			Yes No
	AM2	EP 0239400 A2	09/30/1987	Europe			Yes No
	AN2	EP 0239400 B1	09/30/1987	Europe			Yes No
	AO2	WO 88/06630 A1	09/07/1988	WIPO			Yes No
	AP2	EP 0368684 A1	05/16/1990	Europe			Yes No

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JE	AR	<u>2</u>	Boder, E.T., and Wittrop, D., "Yeast surface display for screening combinatorial polypeptide libraries," <i>Nature Biotech.</i> 15:553-557, Nature Publishing Group (1997)
JE	AS	<u>2</u>	Britton, P.J., "Expression of bacteriophage T7 RNA polymerase in avian and mammalian cells by a recombinant fowlpox virus," <i>J. Gen. Virology</i> 77:963-967, The Society for General Microbiology (1996)
JE	AT	<u>2</u>	Chames, P., and Baty, D., "Antibody engineering and its applications in tumor targeting and intracellular immunization," <i>FEMS Microbiol. Letts.</i> 189:1-8, Elsevier Science B.V. (August 2000)

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JE	AA3	6,153,380	11/28/2000	Nolan et al.	435	6	01/23/1997
	AB3	6,153,430	11/28/2000	Pastan et al.	435	325	12/17/1998
	AC3	6,159,947	12/12/2000	Schweighoffer et al.	514	44	12/28/1995
	AD3	6,180,357 B1	01/30/2001	Young et al.	435	7.23	10/08/1999
	AE3	20010003777 A1	06/14/2001	Young et al.	530	388.8	11/29/2000
	AF3	20010008759 A1	07/19/2001	Marks, et al.	435	4	02/12/1999
	AG3	20010009665 A1	07/26/2001	Young et al.	424	155.1	11/29/2000
	AH3	6,291,158 B1	09/18/2001	Winter, G.P. et al.	435	6	08/21/1992
	AI3	6,291,159 B1	09/18/2001	Winter, G.P. et al.	435	6	08/21/1992
	AJ3	6,291,161 B1	09/18/2001	Lerner, R.A. et al.	435	6	09/04/1992
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
JE	AL3	EP 0371998 B2	06/13/1990	Europe			Yes No
	AM3	WO 90/14430	11/29/1990	WIPO			Yes No
	AN3	WO 90/14443	11/29/1990	WIPO			Yes No
	AO3	WO 92/20791	11/26/1992	WIPO			Yes No
	AP3	WO 94/02610	02/03/1994	WIPO			Yes No

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JE	AR	3	Chen, S.-Y., et al., "Combined intra- and extracellular immunization against human immunodeficiency virus type 1 infection with a human anti-gp120 antibody," <i>Proc. Natl. Acad. Sci. USA</i> 91:5932-5936, National Academy of Sciences (1994)
JE	AS	3	Chen, S.-Y., et al., "Intracellular Antibodies as a New Class of Therapeutic Molecules for Gene Therapy," <i>Human Gene Therapy</i> 5:595-601, Mary Ann Liebert, Inc., (1994)
JE	AT	3	Clackson, T., et al., "Making antibody fragments using phage display libraries," <i>Nature</i> 352:624-628, Macmillan Magazines, Ltd. (1991)

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JE	AL4	WO 97/08320	03/06/1997	WIPO			Yes No
	AM4	WO 99/14353	03/25/1999	WIPO			Yes No
	AN4	WO 00/28016	05/18/2000	WIPO			Yes No
	AO4	WO 00/69907	11/23/2000	WIPO			Yes No
	AP4	WO 01/72995 A2	10/04/2001	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

JE	AR	<u>4</u>	Davies, J. and Riechmann L., "'Camelising' human antibody fragments: NMR studies on VH domains," <i>FEBS Lett.</i> 339:285-290, Elsevier Science Publishers B.V. (1994)
JE	AS	<u>4</u>	Davies, J. and Riechmann, L., "Antibody VH Domains as Small Recognition Units," <i>Bio/technology (NY)</i> 13:475-479, Nature America, Inc. (1995)
JE	AT	<u>4</u>	Duan, L., et al., "Molecular and Virological Effects of Intracellular Anti-Rev Single-Chain Variable Fragments on the Expression of Various Human Immunodeficiency Virus-1 Strains," <i>Human Gene Therapy</i> 5:1315-1324, Mary Ann Liebert, Inc. (1994)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
JE	AL5	CA 1,341,235	05/22/2001	Canada			Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

JE	AR	<u>5</u>	Elroy-Stein, O., et al., "Cytoplasmic expression system based on constitutive synthesis of bacteriophage T7 RNA polymerase in mammalian cells," <i>Proc. Natl. Acad. Sci. USA</i> 87:6743-6747, National Academy of Sciences (1990)
JE	AS	<u>5</u>	Ernst, W.J., et al., "Direct cloning into the <i>Autographa californica</i> nuclear polyhedrosis virus for generation of recombinant baculoviruses," <i>Nucleic Acids Research</i> 22:2855-2856, Oxford University Press (1994)
JE	AT	<u>5</u>	Fenner, F., "Genetic Studies with Mammalian Poxviruses," <i>Virology</i> 8:499-507, Academic Press, Inc. (1959)

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	AM						Yes No
	AN						Yes No
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

JE	AR	<u>6</u>	Fields, S. and Song, O-K., "A novel genetic system to detect protein-protein interactions," <i>Nature</i> 340:245-246, Macmillan Magazines, Ltd. (1989)
JE	AS	<u>6</u>	Foote, J. and Winter, G., "Antibody Framework Residues Affecting the Conformation of the Hypervariable Loops," <i>J. Mol. Biol.</i> 224:487-499, Academic Press, Ltd. (1992)
JE	AT	<u>6</u>	Fuerst, T.R., et al., "Use of a Hybrid Vaccinia Virus-T7 RNA Polymerase System for Expression of Target Genes," <i>Mol. Cell. Biol.</i> 7:2538-2544, American Society for Microbiology (1987)

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JE	AR	7	Güssow, D., et al., "Generating Binding Activities from <i>Escherichia coli</i> by Expression of a Repertoire of Immunoglobulin Variable Domains," <i>Cold Spring Harb. Symp. Quant. Biol.</i> 6:265-272, Cold Spring Harbor Laboratory Press (1989)
JE	AS	7	Hamers-Casterman, C., et al., "Naturally occurring antibodies devoid of light chains," <i>Nature</i> 363:446-448, Macmillan Magazines, Ltd. (1993)
JE	AT	7	Himly, M., et al., "Defective Vaccinia Virus as a Biologically Safe Tool for the Overproduction of Recombinant Human Secretory Proteins," <i>Protein Expr. Purif.</i> 14:317-326, Academic Press, Inc. (1998)

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JE	AR	8	Holzer, G.W., et al., "Construction of a Vaccinia Virus Deficient in the Essential DNA Repair Enzyme Uracil DNA Glycosylase by a Complementary Cell Line," J. Virol. 71:4997-5002, American Society for Microbiology (1997)
JE	AS	8	Holzer, G.W., et al., "Highly Efficient Induction of Protective Immunity by a Vaccinia Virus Vector Defective in Late Gene Expression," J. Virology 73:4536-4542, American Society for Microbiology (1999)
JE	AT	8	Hoogenboom, H.R., et al., "Multi-subunit proteins on the surface of filamentous phage: methodologies for displaying antibody (Fab) heavy and light chains," Nucleic Acids Res. 19:4133-4137, Oxford University Press (1991)

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JE	AR	<u>9</u>	Huston, J.S., et al., "Protein Enigeering of Single-Chain Fv Analogs and Fusion Proteins," <i>Methods Enzymol.</i> 203:46-89, Academic Press, Inc. (1991)
JE	AS	<u>9</u>	Huynh, T., et al., "Constructing and Screening cDNA Libraries in λ gt10 and λ gt11," In: <i>DNA Cloning Vol. I, A Practical Approach</i> , Glover, D.M., (ed.), IRL Press, Oxford, pp. 49-78, (1985)
JE	AT	<u>9</u>	Jespers, L.S., et al., "Guiding the Selection of Human Antibodies from Phage Display Repertoires to a Single Epitope of an Antigen," <i>Bio/technology (NY)</i> 12:899-903, Nature America, Inc. (1994)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

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JE	AR	<u>10</u>	Kitamura, T., et al., "Efficient screening of retroviral cDNA expression libraries," <i>Proc. Natl. Acad. Sci. USA</i> 92:9146-9150, National Academy Press (1995)
JE	AS	<u>10</u>	Marasco, W.A., et al., "Design, intracellular expression, and activity of a human anti-human immunodeficiency virus type 1 gp120 single-chain antibody," <i>Proc. Natl. Acad. Sci. USA</i> 90:7889-7893, National Academy of Sciences (1993)
JE	AT	<u>10</u>	Marasco, W.A., et al., "Intrabodies: turning the humoral immune system outside in for intracellular immunization," <i>Gene Therapy</i> 4:11-15, Stockton Press (1997)

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JE	AR	<u>11</u>	Marks, J.D., et al., "By-passing Immunization. Human Antibodies from V-gene Libraries Displayed on Phage," <i>J. Mol. Biol.</i> 222:581-597, Academic Press, Inc. (1991)
JE	AS	<u>11</u>	Marks, J.D., et al., "Oligonucleotide primers for polymerase chain reaction amplification of human immunoglobulin variable genes and design of family-specific oligonucleotide probes," <i>Eur. J. Immunol.</i> 21:985-991, John Wiley & Sons, Inc., (1991)
JE	AT	<u>11</u>	McCafferty, J., et al., "Phage antibodies: filamentous phage displaying antibody variable domains," <i>Nature</i> 348:552-554, Macmillan Magazines, Ltd. (1990)

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JE	AR	<u>12</u>	Merchlinisky, M. and Moss, B., "Introduction of Foreign DNA into the Vaccinia Virus Genome by <i>in Vitro</i> Ligation: Recombination-Independent Selectable Cloning Vectors," <i>Virology</i> 190:522-526, Academic Press, Inc. (1992)
JE	AS	<u>12</u>	Merchlinisky, M., et al., "Construction and Characterization of Vaccinia Direct Ligation Vectors," <i>Virology</i> 238:444-451, Academic Press, Inc. (1997)
JE	AT	<u>12</u>	Mhashilkar, A.M., et al., "Inhibition of HIV-1 Tat-mediated LTR transactivation and HIV-1 infection by anti-Tat single chain intrabodies," <i>EMBO J.</i> 14:1542-1551, Oxford University Press (1995)

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

JE	AR	<u>13</u>	Miller, A.D., "Human gene therapy comes of age," <i>Nature</i> 357:455-460, Macmillan Publishers Ltd. (1992)
JE	AS	<u>13</u>	Millns, A.K., et al., "The Vaccinia Virus-Encoded Uracil DNA Glycosylase Has an Essential Role in Viral DNA Replication," <i>Virology</i> 198:504-513, Academic Press, Inc. (1994)
JE	AT	<u>13</u>	Moss, B., "Poxviridae and their Replication" in: <i>Virology</i> , 2d Edition, B.N. Fields, D.M. Knipe, et al., Eds., Raven Press, p. 2079-2111 (1990)

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1821.0090004APPLICATION NO.
10/052,942APPLICANT
Zauderer et al.FILING DATE
January 23, 2002GROUP
1627

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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	AL						Yes No
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

JE	AR	<u>14</u>	Moss, B., "Vaccinia Virus: A Tool for Research and Vaccine Development," <i>Science</i> 252:1662-1667, American Association for the Advancement of Science (1991)
JE	AS	<u>14</u>	Okayama, H., et al., "High-Efficiency Cloning of Full-Length cDNA," <i>Mol. Cell. Biol.</i> 2:161-170, The American Society for Microbiology (1982)
JE	AT	<u>14</u>	Orlandi, R., et al., "Cloning immunoglobulin variable domains for expression by the polymerase chain reaction," <i>Proc. Natl. Acad. Sci. USA</i> 86:3833-3837, National Academy Press (1989)

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

JE	AR	<u>15</u>	Persic, L., et al., "Targeting vectors for intracellular immunisation," <i>Gene</i> 187:1-8, Elsevier Science B.V. (1997)
JE	AS	<u>15</u>	Pfleiderer, M., et al., "A novel vaccinia virus expression system allowing construction of recombinants without the need for selection markers, plasmids and bacterial hosts," <i>J. Gen. Virol.</i> 76:2957-2962, Society for General Microbiology (1995)
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

JE	AR	<u>16</u>	Richardson, J.H., <i>et al.</i> , "Phenotypic knockout of the high-affinity human interleukin 2 receptor by intracellular single-chain antibodies against the α subunit of the receptor," <i>Proc. Natl. Acad. Sci. USA</i> 92:3137-3141, National Academy of Sciences (1995)
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JE	AT	<u>16</u>	Riechmann, L. and Muyldermans, S., "Single domain antibodies: comparison of camel VH and camelised human VH domains," <i>J. Immunol. Methods</i> 231:25-38, Elsevier Science Publishers B.V. (1999)

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JE	AR	<u>17</u>	Rixon, F.J., <i>et al.</i> , "Insertion of DNA sequences at a unique restriction enzyme site engineered for vector purposes into the genome of herpes simplex virus type 1," <i>J. Gen. Virology</i> 71:2931-2939, The Society for General Microbiology (1990)
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JE	AT	<u>18</u>	Whitehead, I., et al., "Expression Cloning of Oncogenes by Retroviral Transfer of cDNA Libraries," <i>Mol. Cell. Biol.</i> 15:704-710, American Society for Microbiology (1995)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

JE	AR	<u>19</u>	Winter, G. and Milstein, C., "Man-made antibodies," <i>Nature</i> 349:293-299, Macmillan Magazines, Ltd. (1991)
JE	AS	<u>19</u>	Wong, G.G., et al., "Human GM-CSF: Molecular Cloning of the Complementary DNA and Purification of the Natural and Recombinant Proteins," <i>Science</i> 228:810-815, American Association for the Advancement of Science (1985)
JE	AT	<u>19</u>	Wu, G.Y., et al., "Receptor-mediated Gene Delivery and Expression in Vivo," <i>J. Biol. Chem.</i> 263:14621-14624, American Society for Biochemistry and Molecular Biology (1988)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

JE	AR	<u>20</u>	Co-pending Non-Provisional U.S. Patent Application No. 08/935,377, Zauderer, M., et al., filed September 22, 1997
JE	AS	<u>20</u>	Provisional U.S. Patent Application No. 60/203,343, Zauderer, M., et al., filed May 10, 2000
JE	AT	<u>20</u>	Co-pending Non-Provisional U.S. Patent Application No. 09/818,991, Zauderer, M., et al., filed March 28, 2001

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

JE	AR	<u>21</u>	Co-pending Non-Provisional U.S. Patent Application No. 09/822,250, Zauderer, M., filed April 2, 2001
JE	AS	<u>21</u>	Co-pending Non-Provisional U.S. Patent Application No. 09/987,456, Zauderer, M., et al., filed November 14, 2001
JE	AT	<u>21</u>	Co-pending Non-Provisional U.S. Patent Application No. 10/034,250, Zauderer, M., filed January 3, 2002

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Zauderer et al.FILING DATE
January 23, 2002GROUP
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

JE	AR	22	Co-pending Non-Provisional U.S. Patent Application No. 10/061,395, Zauderer, M., et al., filed February 4, 2002
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1821.0090004/EJH/T-MAPPLICATION NO.
10/052,942SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTAPPLICANT
Zauderer et al.FILING DATE
January 23, 2002GROUP
1639

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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JE	AK3	5,830,721	11/03/1998	Stemmer et al.			03/04/1996

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
JE	AN5	WO 99/30151	06/17/1999	WIPO			Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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JE	AS	<u>22</u>	Griffiths, A.D., et al., "Isolation of high affinity human antibodies directly from large synthetic repertoires," <i>EMBO J.</i> 13:3245-3260, (1994)
JE	AT	<u>22</u>	Smith, E.S., et al., "Lethality-based selection of recombinant genes in mammalian cells: Application to identifying tumor antigens," <i>Nat. Med.</i> 7:967-972, Nature Publishing Company (August 2001)

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DATE CONSIDERED 11/04/2006

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1639SECOND SUPPLEMENTAL
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	AN						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

JE	AR	23	Waterhouse, P., et al., "Combinatorial infection and <i>in vivo</i> recombination: a strategy for making large phage antibody repertoires," Nucl. Acids Res. 21:2265-2266, Oxford University Press (1993)
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DATE CONSIDERED 11/04/2006

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THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1821.0090004/EKS/EJH/T-MAPPLICATION NO.
10/052,942APPLICANT
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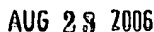
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JE	AS	23	Rondon, I.J., and Marasco, W.A., "Intracellular Antibodies (Intrabodies) For Gene Therapy of Infectious Diseases," Annu. Rev. Microbiol. 51:257-283, Annual Reviews Inc. (1997).
JE	AT	23	International Search Report for International Application No. PCT/US02/01677, mailed August 19, 2003.

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SIXTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	10/052,942
Filing Date	January 23, 2002
First Named Inventor	Maurice ZAUDERER
Art Unit	1639
Examiner Name	Epperson, J.D.
Attorney Docket Number	1821.0090004/EJH/FRC

U.S. PATENT DOCUMENTS

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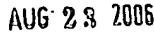
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Examiner Signature	/Jon Epperson/	Date Considered	11/04/2006
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Application Number

10/052,942

Filing Date

January 23, 2002

First Named Inventor

Maurice ZAUDERER

Art Unit

1639

Examiner Name

Epperson, J.D.

Attorney Docket Number

1821.0090004/EJH/FRC

Sheet

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Initials*Cite
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Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published

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JE

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U.S. Application No. 07/987,546, Moss *et al.*, filed December 7, 1992 (NOT PUBLISHED)

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/Jon Epperson/

Date _____

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